

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	345/326.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/30 12:49
L2	300	345/530.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/30 12:55
L3	1435	709/200.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/30 12:55
L4	47	l3 and server near5 queue	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/30 12:55
L5	11077	709/201-204.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/30 12:56
L6	555	l5 and server near5 queue	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/30 12:56
L7	62	l6 and transaction near5 message	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/30 12:56
L8	25089	709/217-228.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/30 12:56
L9	863	l8 and server near5 queue	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/30 12:56

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L10	85	I9 and transaction near5 message	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/30 12:56
L11	931	719/310.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/30 12:56
L12	39	I11 and server near5 queue	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/30 12:56
L13	3105	719/311-318.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/30 12:56
L14	153	I13 and server near5 queue	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/30 12:56
L15	30	I14 and transaction near5 message	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/30 12:57
L16	75	345/530 and queue	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/30 12:57
L17	29	345/530.ccls. and queue	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/30 12:57
L18	656	718/100.ccls. and queue	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/30 12:57
L19	34	I18 and transaction near5 message	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/30 12:58

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L20	1515	718/101-105.ccls. and queue	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/30 12:57
L21	125	l20 and transaction near5 message	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/30 12:58
S1	42	709/104.ccls. and "load balancing"	USPAT; EPO; JPO	OR	ON	2003/10/24 15:58
S2	33	(709/104.ccls. and "load balancing") and (load same (computer or device))	USPAT; EPO; JPO	OR	ON	2003/06/13 15:14
S3	113	709/104.ccls. and (message same (computer or device))	USPAT; EPO; JPO	OR	ON	2003/06/13 15:17
S4	161	709/104.ccls. and (message same (computer or device or resource))	USPAT; EPO; JPO	OR	ON	2003/06/13 15:18
S5	25	(709/104.ccls. and (message same (computer or device or resource))) and balancing	USPAT; EPO; JPO	OR	ON	2003/06/13 15:38
S6	34	709/104.cor. and (computer same (distribute or allocate))	USPAT; EPO; JPO	OR	ON	2003/06/13 16:28
S7	15	709/104.cor. and (computer same (distribute or allocate or send) same (message or date))	USPAT; EPO; JPO	OR	ON	2003/06/13 16:32
S8	234	"server queue"	USPAT; EPO; JPO	OR	ON	2003/06/13 16:33
S9	230	"server queue" and system	USPAT; EPO; JPO	OR	ON	2003/06/13 16:33
S10	111	("server queue" and system) and "709".clas.	USPAT; EPO; JPO	OR	ON	2003/06/13 16:34
S11	92	((("server queue" and system) and "709".clas.) and message	USPAT; EPO; JPO	OR	ON	2003/06/13 16:34
S12	41	((("server queue" and system) and "709".clas.) and message) and distribute	USPAT; EPO; JPO	OR	ON	2003/06/13 16:35
S13	0	("6317786.pn").PN.	USPAT; USOCR	OR	OFF	2003/10/24 15:58
S14	1	("6317786").PN.	USPAT; USOCR	OR	OFF	2003/10/24 17:39
S15	1	("6185601").PN.	USPAT; USOCR	OR	OFF	2003/10/24 17:39
S16	1	((("6185601").PN.) and (server same queue)	USPAT	OR	OFF	2003/10/24 17:57

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S17	1	((("6185601").PN.) and ((load adj balanc\$) same request)	USPAT	OR	OFF	2003/10/24 18:11
S18	1	("5884077").PN.	USPAT; USOCR	OR	OFF	2003/10/24 18:27
S19	0	((("5884077").PN.) and (client same display)	USPAT	OR	OFF	2003/10/24 18:27
S20	1	((("5884077").PN.) and (computer same display)	USPAT	OR	OFF	2003/10/24 18:27
S21	63	display\$3 near8 distributed near2 message	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/14 16:17
S22	5	display\$3 near8 distributed near2 message and workload	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/14 16:19
S23	5	(US-20030149765-\$ or US-20030033543-\$ or US-20020143947-\$ or US-20020013832-\$ or US-20010039497-\$).did.	US-PGPUB	OR	OFF	2004/04/14 16:19
S24	5	((US-20030149765-\$ or US-20030033543-\$ or US-20020143947-\$ or US-20020013832-\$ or US-20010039497-\$).did.) and display\$3 near8 distributed near2 message	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/14 16:22
S25	1	((US-20030149765-\$ or US-20030033543-\$ or US-20020143947-\$ or US-20020013832-\$ or US-20010039497-\$).did.) and display\$3 near8 workload near8 message	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/14 16:22
S26	4	display\$3 near8 workload near8 message	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/14 16:27
S27	2	track\$3 near8 workload near8 message	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/14 16:28
S28	1249	709/226.ccls.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/14 16:28
S29	151	709/226.ccls. and workload	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/14 16:28
S30	5	(709/226.ccls. and workload) and display near8 system near8 message	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/14 16:32

## EAST Search History

S31	1	(709/226.ccls. and workload) and display near8 distribut\$5 near8 message	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/14 17:12
S32	214	display\$3 near8 divid\$3 near8 message	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/14 17:12
S33	5	display\$3 near8 divid\$3 near8 message same server	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/14 17:14
S34	3	\$5load adj balancing same (display\$3 near8 message)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/14 17:15
S35	1	"6457065".pn.	USPAT	OR	OFF	2004/04/14 19:38
S36	10	(split\$5 or divid\$3) near8 request\$3 same (load adj balanc\$5)	USPAT	OR	ON	2004/04/15 15:06
S37	10	"6351775".URPN.	USPAT	OR	OFF	2004/04/15 14:55
S38	28	(split\$5 or divid\$3) near8 request\$3 same (load adj balanc\$5)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/15 15:14
S39	28	((split\$5 or divid\$3) near8 request\$3 same (load adj balanc\$5)) not "6351775".URPN.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/15 15:07
S40	18	((split\$5 or divid\$3) near8 request\$3 same (load adj balanc\$5)) not ((split\$5 or divid\$3) near8 request\$3 same (load adj balanc\$5))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/15 15:07
S41	1	((((split\$5 or divid\$3) near8 request\$3 same (load adj balanc\$5)) not ((split\$5 or divid\$3) near8 request\$3 same (load adj balanc\$5))) same (track\$3)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/15 15:08
S42	9	((((split\$5 or divid\$3) near8 request\$3 same (load adj balanc\$5)) not ((split\$5 or divid\$3) near8 request\$3 same (load adj balanc\$5))) and (track\$3)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/15 15:08
S43	4	(split\$5 or divid\$3 or break\$3 or part\$5 or separat\$3) near8 (request\$3 or message) same (load adj balanc\$5) same (display\$3 or track\$3)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/15 15:16
S44	156	(split\$5 or divid\$3 or break\$3 or part\$5 or separat\$3) near8 (request\$3 or message) same (load adj balanc\$5) and (display\$3 or track\$3)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/15 15:33

## EAST Search History

S45	132	((split\$5 or divid\$3 or break\$3 or part\$5 or separat\$3) near8 (request\$3 or message) same (load adj balanc\$5) and (display\$3 or track\$3)) not ((split\$5 or divid\$3 or break\$3 or part\$5 or separat\$3) near8 (request\$3 or message) same (load adj balanc\$5) same (display\$3 or track\$3)) not (((split\$5 or divid\$3) near8 request\$3 same (load adj balanc\$5)) not "6351775".URPN.)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/15 15:16
S46	15	(((split\$5 or divid\$3 or break\$3 or part\$5 or separat\$3) near8 (request\$3 or message) same (load adj balanc\$5) and (display\$3 or track\$3)) not ((split\$5 or divid\$3 or break\$3 or part\$5 or separat\$3) near8 (request\$3 or message) same (load adj balanc\$5) same (display\$3 or track\$3)) not (((split\$5 or divid\$3) near8 request\$3 same (load adj balanc\$5)) not "6351775".URPN.)) and ((load adj balanc\$5) near8 (display\$3 or track\$3))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/15 15:24
S47	20	(load adj balancer) near8 (display\$3 or track\$3)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/15 15:32
S48	78	(load adj balancer) same (display\$3 or track\$3)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/15 15:32
S49	57	((load adj balancer) same (display\$3 or track\$3)) not ((load adj balancer) near8 (display\$3 or track\$3)) not ((split\$5 or divid\$3 or break\$3 or part\$5 or separat\$3) near8 (request\$3 or message) same (load adj balanc\$5) same (display\$3 or track\$3)) not (((split\$5 or divid\$3) near8 request\$3 same (load adj balanc\$5)) not "6351775".URPN.)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/15 15:32

## EAST Search History

S50	20	((load adj balancer) same (display\$3 or track\$3)) not ((load adj balancer) near8 (display\$3 or track\$3)) not ((split\$5 or divid\$3 or break\$3 or part\$5 or separat\$3) near8 (request\$3 or message) same (load adj balanc\$5) same (display\$3 or track\$3)) not (((split\$5 or divid\$3) near8 request\$3 same (load adj balanc\$5)) not "6351775".URPN.)) and ((split\$5 or divid\$3 or break\$3 or part\$5 or separat\$3) near8 (request\$3 or message))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/15 15:43
S51	212	709/226.ccls. and (load adj balanc\$5) and (track\$3 or display\$3 near8 message or packet)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/15 16:17
S52	33	709/226.ccls. and (load adj balanc\$5) and ((track\$3 or display\$3) near8 (message or packet))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/15 16:22
S53	33	(US-6697858-\$ or US-6192408-\$ or US-6182139-\$ or US-5938722-\$ or US-6230200-\$ or US-6453353-\$ or US-6542933-\$ or US-6578068-\$ or US-6584466-\$ or US-6658473-\$ or US-6334114-\$ or US-6314465-\$ or US-6295557-\$ or US-6289382-\$ or US-6205481-\$ or US-4849877-\$ or US-5220674-\$ or US-5457797-\$ or US-6430602-\$).did. or (US-20010037311-\$ or US-20020059425-\$ or US-20020065919-\$ or US-20030177187-\$ or US-20040054780-\$ or US-20020133593-\$ or US-20020133594-\$ or US-20020174227-\$ or US-20030158940-\$ or US-20030046396-\$ or US-20030069974-\$ or US-20030069973-\$ or US-20030061356-\$ or US-20030154284-\$).did.	US-PGPUB; USPAT	OR	OFF	2004/04/15 15:44

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S54	33	((US-6697858-\$ or US-6192408-\$ or US-6182139-\$ or US-5938722-\$ or US-6230200-\$ or US-6453353-\$ or US-6542933-\$ or US-6578068-\$ or US-6584466-\$ or US-6658473-\$ or US-6334114-\$ or US-6314465-\$ or US-6295557-\$ or US-6289382-\$ or US-6205481-\$ or US-4849877-\$ or US-5220674-\$ or US-5457797-\$ or US-6430602-\$).did. or (US-20010037311-\$ or US-20020059425-\$ or US-20020065919-\$ or US-20030177187-\$ or US-20040054780-\$ or US-20020133593-\$ or US-20020133594-\$ or US-20020174227-\$ or US-20030158940-\$ or US-20030046396-\$ or US-20030069974-\$ or US-20030069973-\$ or US-20030061356-\$ or US-20030154284-\$).did.) and ((track\$3 or display\$3) near8 (message or packet))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/15 15:45
S55	12	709/226.ccls. and (display\$3 or track\$3) near8 (split\$5 or divid\$3 or break\$3 or part\$5 or separat\$3 or distribut\$3) near8 message	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/15 16:21
S56	1	709/226.ccls. and (display\$3 or track\$3) near8 (balanc\$5) near8 message	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/15 16:20
S57	0	718/105.ccls. and (display\$3 or track\$3) near8 (balanc\$5) near8 message	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/15 16:20
S58	2	718/105.ccls. and (display\$3 or track\$3) near8 (split\$5 or divid\$3 or break\$3 or part\$5 or separat\$3 or distribut\$3) near8 message	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/15 16:21
S59	28	718/105.ccls. and (load adj balanc\$5) and ((track\$3 or display\$3) near8 (message or packet))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/15 16:46
S60	3	(load adj balanc\$5) and (editor near8 node)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/15 16:47
S61	11	(load adj balanc\$5) same (editor)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/15 16:51



## EAST Search History

S62	45	(load adj balanc\$5) same (viewer)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/15 16:51
S63	5	(load adj balanc\$5) near8 (viewer)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/15 16:53
S64	213	(load adj balanc\$5) near8 (monitor)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/15 16:54
S65	17	709/226.ccls. and (load adj balanc\$5) near8 (monitor)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/15 17:01
S66	29	718/105.ccls. and (load adj balanc\$5) near8 (monitor)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/15 17:07
S67	669	load adj monitor	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/15 17:07
S68	67	load adj monitor same display\$3	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/15 17:07
S69	0	(load adj monitor same display\$3) and load adj balancing	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/15 17:07
S70	3	(load adj monitor same display\$3) and ((split\$5 or divid\$3 or break\$3 or part\$5 or separat\$3) near8 (request\$3 or message))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/15 17:09
S71	43	(load adj monitor) and ((split\$5 or divid\$3 or break\$3 or part\$5 or separat\$3) near8 (request\$3 or message))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/15 17:10
S72	40	((load adj monitor) and ((split\$5 or divid\$3 or break\$3 or part\$5 or separat\$3) near8 (request\$3 or message))) not ((load adj monitor same display\$3) and ((split\$5 or divid\$3 or break\$3 or part\$5 or separat\$3) near8 (request\$3 or message)))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/15 17:09

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S73	40	((load adj monitor) and ((split\$5 or divid\$3 or break\$3 or part\$5 or separat\$3) near8 (request\$3 or message))) not ((load adj monitor same display\$3) and ((split\$5 or divid\$3 or break\$3 or part\$5 or separat\$3) near8 (request\$3 or message)))) and ((split\$5 or divid\$3 or break\$3 or part\$5 or separat\$3) near8 (request\$3 or message))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/15 17:10
S74	40	(US-4477881-\$ or US-4763104-\$ or US-4828257-\$ or US-5719854-\$ or US-5745777-\$ or US-5825858-\$ or US-6032189-\$ or US-6101179-\$ or US-6122255-\$ or US-6163276-\$ or US-6181258-\$ or US-6317808-\$ or US-6341334-\$ or US-6438652-\$ or US-6452986-\$ or US-6477558-\$ or US-6564104-\$ or US-6573907-\$ or US-4445180-\$ or US-6591301-\$ or US-6636588-\$ or US-6691165-\$ or US-6721941-\$ or US-6677862-\$). did. or (US-20030061356-\$ or US-20030078930-\$ or US-20030110382-\$ or US-20030158913-\$ or US-20030167381-\$ or US-20030174820-\$ or US-20030231618-\$ or US-20040049579-\$ or US-20040066749-\$ or US-20010053694-\$ or US-20020026560-\$ or US-20020137515-\$ or US-20030028642-\$ or US-20010023360-\$).did. or (JP-2001022714-\$ or JP-63211060-\$).did.	US-PGPUB; USPAT; JPO	OR	OFF	2004/04/15 17:10

## EAST Search History

S75	40	((US-4477881-\$ or US-4763104-\$ or US-4828257-\$ or US-5719854-\$ or US-5745777-\$ or US-5825858-\$ or US-6032189-\$ or US-6101179-\$ or US-6122255-\$ or US-6163276-\$ or US-6181258-\$ or US-6317808-\$ or US-6341334-\$ or US-6438652-\$ or US-6452986-\$ or US-6477558-\$ or US-6564104-\$ or US-6573907-\$ or US-4445180-\$ or US-6591301-\$ or US-6636588-\$ or US-6691165-\$ or US-6721941-\$ or US-6677862-\$). did. or (US-20030061356-\$ or US-20030078930-\$ or US-20030110382-\$ or US-20030158913-\$ or US-20030167381-\$ or US-20030174820-\$ or US-20030231618-\$ or US-20040049579-\$ or US-20040066749-\$ or US-20010053694-\$ or US-20020026560-\$ or US-20020137515-\$ or US-20030028642-\$ or US-20010023360-\$).did. or (JP-2001022714-\$ or JP-63211060-\$).did.) and ((split\$5 or divid\$3 or break\$3 or part\$5 or separat\$3) near8 (request\$3 or message))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/15 17:10
S76	1	("5799173").PN.	USPAT; USOCR	OR	OFF	2004/04/19 10:16
S77	7	"5799173".URPN.	USPAT	OR	OFF	2004/04/19 10:16
S78	1	("5799173").PN.	USPAT; USOCR	OR	OFF	2004/04/19 12:10
S79	9490	workload or (work adj load) near5 balanc\$3 near5 system	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/19 12:12
S80	0	(workload or (work adj load) near5 balanc\$3 near5 system) same display3	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/19 12:12
S81	0	(workload or (work adj load) near5 balanc\$3 near5 system) and display3	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/19 12:12
S82	2182	message near5 associated near5 system	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/19 12:12
S83	79	message near5 associated near5 system and load adj balanc\$3	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/19 12:13

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S84	6	message near5 associated near5 system same display\$3 and load adj balanc\$3	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/19 12:13
S85	1	("5778224").PN.	USPAT; USOCR	OR	OFF	2004/04/19 16:21
S86	12	"5778224".URPN.	USPAT	OR	OFF	2004/04/19 16:13
S87	312	display and distributed near2 transaction	USPAT	OR	OFF	2004/04/19 16:22
S88	210	display and distributed adj transaction	USPAT	OR	OFF	2004/04/19 16:22
S89	210	display and (distributed adj transaction)	USPAT	OR	OFF	2004/04/19 16:22
S90	2	display same (distributed adj transaction)	USPAT	OR	OFF	2004/04/19 16:23
S91	7	display same (distributed near2 transaction)	USPAT	OR	OFF	2004/04/19 16:26
S92	24	distributed near2 transaction near5 message	USPAT	OR	OFF	2004/04/19 16:31
S93	80	distributed near2 transaction same (message near multiple or plural\$3)	USPAT	OR	OFF	2004/04/19 16:32
S94	0	distributed near2 transaction same (message near (multiple or plural\$3))	USPAT	OR	OFF	2004/04/19 16:32
S95	0	distributed near2 transaction same (message near (multiple or plural\$3))	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/04/19 16:32
S96	0	(distributed near2 transaction) same (message near (multiple or plural\$3))	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/04/19 16:32
S97	1	(distributed near2 transaction) same (message near2 (multiple or plural\$3))	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/04/19 16:32
S98	0	(distributed near2 transaction) same (message near2 (split\$5 or divid\$3 or break\$3))	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2004/04/19 16:33
S99	1	(distributed near2 transaction) same (message near2 (split\$5 or divid\$3 or break\$3))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/19 16:34
S100	80	(distributed near2 transaction) and (message near2 (split\$5 or divid\$3 or break\$3))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/04/19 16:37
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- 1 [Distributed systems and grid computing \(DSGC\): Reliability in three-tier systems without application server coordination and persistent message queues](#)



Francesco Quaglia, Paolo Romano

 March 2005 **Proceedings of the 2005 ACM symposium on Applied computing SAC '05**

Publisher: ACM Press

 Full text available: pdf(226.45 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

When dealing with fault tolerance in three-tier systems, two major problems need to be addressed, that is how to prevent duplicate transaction executions when classical timeout based retransmission logics are employed, and how to ensure the agreement among the back-end databases despite failures (a transaction needs to be aborted or committed at all the involved databases independently of the failure scenario). In this paper we address these problems by proposing a fault tolerant protocol that, ...

**Keywords:** distributed protocols, transaction processing

- 2 [Strategies for integrating messaging and distributed object transactions](#)



Stefan Tai, Isabelle Rouvellou

 April 2000 **IFIP/ACM International Conference on Distributed systems platforms**

Publisher: Springer-Verlag New York, Inc.

 Full text available: pdf(460.54 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Messaging, and distributed transactions, describe two important models for building enterprise software systems. Distributed object middleware aims to support both models by providing messaging and transaction services. But while the concept of distributed object transactions is well-understood, support for messaging in distributed object environments is still in its early stages, and not nearly as readily perceived. Integrating messaging into distributed object environments, and in particula ...

- 3 [A flexible and recoverable client/server database event notification system](#)



Eric N. Hanson, I.-Cheng Chen, Roxana Dastur, Kurt Engel, Vijay Ramaswamy, Wendy Tan, Chun Xu

 February 1998 **The VLDB Journal — The International Journal on Very Large Data**
**Bases**, Volume 7 Issue 1

Publisher: Springer-Verlag New York, Inc.

 Full text available: pdf(105.38 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

A software architecture is presented that allows client application programs to interact with a DBMS server in a flexible and powerful way, using either direct, volatile messages, or messages sent via recoverable queues. Normal requests from clients to the server and replies from the server to clients can be transmitted using direct or recoverable messages. In addition, an application event notification mechanism is provided, whereby client applications running anywhere on the network can regist ...

#### 4 Modeling methodology: A capacity planning tool for the tuxedo middleware used in transaction processing systems

Tayfur Altioek, Wei Xiong, Mesut Gunduc


December 2001 **Proceedings of the 33rd conference on Winter simulation**

**Publisher:** IEEE Computer Society

Full text available:  [pdf\(211.12 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we present a brief overview of Tuxedo middleware system (BEA Systems) and introduce an object-oriented computer simulation template developed for the purpose of capacity planning and performance analysis of Tuxedo application environments. Arena/Siman (Rockwell Software) simulation software is chosen and a *CP\_Tool* template specific to Tuxedo environment is developed. The template consists of a number of modules representing client and server nodes, network nodes and other c ...

#### 5 Efficient transparent application recovery in client-server information systems

 David Lomet, Gerhard Weikum


June 1998 **ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international conference on Management of data SIGMOD '98**, Volume 27 Issue 2

**Publisher:** ACM Press

Full text available:  [pdf\(1.62 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Database systems recover persistent data, providing high database availability. However, database applications, typically residing on client or "middle-tier" application-server machines, may lose work because of a server failure. This prevents the masking of server failures from the human user and substantially degrades application availability. This paper aims to enable high application availability with an integrated method for database server recovery and tra ...

#### 6 Recovery guarantees for Internet applications

 Roger Barga, David Lomet, German Shegalov, Gerhard Weikum

August 2004 **ACM Transactions on Internet Technology (TOIT)**, Volume 4 Issue 3

**Publisher:** ACM Press

Full text available:  [pdf\(997.52 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Internet-based e-services require application developers to deal explicitly with failures of the underlying software components, for example web servers, servlets, browser sessions, and so forth. This complicates application programming, and may expose failures to end users. This paper presents a framework for an application-independent infrastructure that provides recovery guarantees and masks almost all system failures, thus relieving the application programmer from having to deal with these f ...

**Keywords:** Exactly-once execution, application recovery, communication protocols, interaction contracts

#### 7 Industrial papers: service oriented architectures, middleware: Service Oriented

 Database Architecture: APP server-lite?

David Campbell

June 2005 **Proceedings of the 2005 ACM SIGMOD international conference on Management of data**

**Publisher:** ACM Press

Full text available:  pdf(505.57 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

As the capabilities and service levels of enterprise database systems have evolved, they have collided with incumbent technologies such as TP-Monitors or Message Oriented Middleware (MOM). We believe this trend will continue and have architected the upcoming release of SQL Server to advance this technology trend. This paper describes the Service Oriented Database Architecture (SODA) developed for the Microsoft SQL Server DBMS. First, it motivates the need for building Service Oriented Architectu ...

8 Transaction processing monitors



Philip A. Bernstein

November 1990 **Communications of the ACM**, Volume 33 Issue 11

**Publisher:** ACM Press

Full text available:  pdf(3.06 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A transaction processing (TP) application is a program that performs an administrative function by accessing a shared database on behalf of an on-line user. A TP system is an integrated set of products that supports TP applications. These products include both hardware, such as processors, memories, disks and communications controllers, and software such as operating systems (Oss), database management systems (DBMSs), computer networks and TP monitors. Much of the integration of these prod ...

9 Exotica: a project on advanced transaction management and workflow systems



C. Mohan, D. Agrawal, G. Alonso, A. El Abbadi, R. Guenthoer, M. Kamath

August 1995 **ACM SIGOIS Bulletin**, Volume 16 Issue 1

**Publisher:** ACM Press

Full text available:  pdf(781.89 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This paper is an overview of the Exotica project, currently in progress at the IBM Almaden Research Center. The project aims at exploring several research areas from advanced transaction management concepts to client/server architectures and mobile computing within the context of business processes and workflow management. The ultimate goal is to incorporate these ideas into IBM's products and prototypes. The project involves IBM groups in Almaden (U.S.A.), Hursley (U.K.), Boeblingen (Germany), ...

10 An object server for an object-oriented database system

Andrea H. Skarra, Stanley B. Zdonik, Stephen P. Reiss

September 1986 **Proceedings on the 1986 international workshop on Object-oriented database systems**

**Publisher:** IEEE Computer Society Press

Full text available:  pdf(853.89 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper summarizes the interface, implementation, and use of a server process that is used as a backend by an object-oriented database system. This server is responsible for managing objects on secondary storage, managing transactions, and implementing a simple form of trigger. We sketch the interface of this system and point out some of the more interesting implementation issues that were encountered in building it. Client processes communicate asynchronously with the server ...

11 Fault tolerance under UNIX



Anita Borg, Wolfgang Blau, Wolfgang Graetsch, Ferdinand Herrmann, Wolfgang Oberle

January 1989 **ACM Transactions on Computer Systems (TOCS)**, Volume 7 Issue 1



**Publisher:** ACM Press

Full text available:  [pdf\(1.97 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The initial design for a distributed, fault-tolerant version of UNIX based on three-way atomic message transmission was presented in an earlier paper [3]. The implementation effort then moved from Auragen Systems<sup>1</sup> to Nixdorf Computer where it was completed. This paper describes the working system, now known as the TARGON/32. The original design left open questions in at least two areas: fault tolerance for server processes and recovery after a crash were brief ...

## 12 [Persistent messages in local transactions](#)



David E. Lowell, Peter M. Chen

June 1998 **Proceedings of the seventeenth annual ACM symposium on Principles of distributed computing**

**Publisher:** ACM Press

Full text available:  [pdf\(976.77 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

## 13 [A methodology for analyzing the performance of authentication protocols](#)



Alan Harbitter, Daniel A. Menascé

November 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 4

**Publisher:** ACM Press

Full text available:  [pdf\(1.25 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Performance, in terms of user response time and the consumption of processing and communications resources, is an important factor to be considered when designing authentication protocols. The mix of public key and secret key encryption algorithms typically included in these protocols makes it difficult to model performance using conventional analytical methods. In this article, we develop a validated modeling methodology to be used for analyzing authentication protocol features, and we use two ...

**Keywords:** Authentication, Kerberos, mobile computing, performance modeling, proxy servers, public key cryptography

## 14 [Transaction processing in PRO-MOTION](#)



Gary D. Walborn, Panos K. Chrysanthis

February 1999 **Proceedings of the 1999 ACM symposium on Applied computing**

**Publisher:** ACM Press

Full text available:  [pdf\(1.28 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** commit processing, data caching, disconnected database operations, mobile transactions

## 15 [Transactional client-server cache consistency: alternatives and performance](#)



Michael J. Franklin, Michael J. Carey, Miron Livny

September 1997 **ACM Transactions on Database Systems (TODS)**, Volume 22 Issue 3

**Publisher:** ACM Press

Full text available:  [pdf\(452.41 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Client-server database systems based on a data shipping model can exploit client memory resources by caching copies of data items across transaction boundaries. Caching reduces the need to obtain data from servers or other sites on the network. In order to ensure that such caching does not result in the violation of transaction semantics, a transactional cache consistency maintenance algorithm is required. Many such algorithms have been proposed in the literature and, as all provide the sam ...

16 COCA: A secure distributed online certification authority



Lidong Zhou, Fred B. Schneider, Robbert Van Renesse

November 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 4

**Publisher:** ACM Press

Full text available: [pdf\(448.28 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

COCA is a fault-tolerant and secure online certification authority that has been built and deployed both in a local area network and in the Internet. Extremely weak assumptions characterize environments in which COCA's protocols execute correctly: no assumption is made about execution speed and message delivery delays; channels are expected to exhibit only intermittent reliability; and with  $3t + 1$  COCA servers up to  $t$  may be faulty or compromised. COCA is the first system to integr ...

**Keywords:** Byzantine quorum systems, Certification authority, denial of service, proactive secret-sharing, public key infrastructure, threshold cryptography

17 Distributed transactions in practice



Prabhu Ram, Lyman Do, Pamela Drew

September 1999 **ACM SIGMOD Record**, Volume 28 Issue 3

**Publisher:** ACM Press

Full text available: [pdf\(873.01 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The concept of transactions and its application has found wide and often indiscriminate usage. In large enterprises, the model for distributed database applications has moved away from the client-server model to a multi-tier model with large database application software forming the middle tier. The software philosophy of "buy and not build" in large enterprises has had a major influence by extending functional requirements such as transactions and data consistency throughout th ...

18 Stateful distributed interposition



John Reumann, Kang G. Shin

February 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 1

**Publisher:** ACM Press

Full text available: [pdf\(833.84 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Interposition-based system enhancements for multitiered servers are difficult to build because important system context is typically lost at application and machine boundaries. For example, resource quotas and user identities do not propagate easily between cooperating services that execute on different hosts or that communicate with each other via intermediary services. Application-transparent system enhancement is difficult to achieve when such context information is obscured by complex servic ...

**Keywords:** Distributed computing, component services, distributed context, multitiered services, operating systems, server consolidation

19

Adaptive, fine-grained sharing in a client-server OODBMS: a callback-based



**approach**

Markos Zaharioudakis, Michael J. Carey, Michael J. Franklin

December 1997 **ACM Transactions on Database Systems (TODS)**, Volume 22 Issue 4**Publisher:** ACM Press

Full text available: pdf(441.80 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

For reasons of simplicity and communication efficiency, a number of existing object-oriented database management systems are based on page server architectures; data pages are their minimum unit of transfer and client caching. Despite their efficiency, page servers are often criticized as being too restrictive when it comes to concurrency, as existing systems use pages as the minimum locking unit as well. In this paper we show how to support object-level locking in a page-server context. Sev ...

**Keywords:** cache coherency, cache consistency, client-server databased, fine-grained sharing, object-oriented databases, performance analysis

**20** **Engineering web cache consistency**

Jian Yin, Lorenzo Alvisi, Mike Dahlin, Arun Iyengar

August 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 3**Publisher:** ACM Press

Full text available: pdf(403.96 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Server-driven consistency protocols can reduce read latency and improve data freshness for a given network and server overhead, compared to the traditional consistency protocols that rely on client polling. Server-driven consistency protocols appear particularly attractive for large-scale dynamic Web workloads because dynamically generated data can change rapidly and unpredictably. However, there have been few reports on engineering server-driven consistency for such workloads. This article repo ...

**Keywords:** Cache coherence, cache consistency, dynamic content, lease, scalability, volume

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